



DATAPOINT

Open Systems Networking

ARCNETPLUS

PC LAN Adapter

**SIMPLY THE
FASTEST LAN FOR
HIGH-PERFORMANCE
APPLICATIONS**



ARCNETPLUSTM

*Multi-speed high performance, 8 or
16-bit IBM PC compatibility, and total
interoperability with first-generation
ARCNET components*

Features all of ARCNET's time-tested

*Part of a unique new line of price-
competitive ARCNETPLUS LAN
components that comprise the 1990s
most significant advancement in LAN
technology*

ARCNETPLUS

PC LAN Adapter

- ▲ 20 and 2.5 Mbit multi-speed performance
- ▲ Novell NetWare drivers
- ▲ ARCNET compatibility features
- ▲ Designed for ease of installation
- ▲ Conforms with ISO/OSI networking model
- ▲ Reliability

PERFORMANCE

The 20 million bits per second data transfer rate of ARCNETPLUS combines with large data packets and the lowest protocol overhead of all commercially-available LAN alternatives to provide the optimum PC networking environment in the market today.

COMPATIBILITY FEATURES

Network Compatibility

ARCNETPLUS is 100 percent compatible with all ARCNET networks. A complete implementation of the ARCNET LAN protocol enables the ARCNETPLUS PC LAN Adapter to exchange data with an ARCNET LAN Adapter when compatible network operating system drivers are utilized.

ARCNET Emulation Mode

The ARCNETPLUS PC LAN Adapter provides an ARCNET emulation mode which supports direct compatibility with most ARCNET software drivers. When operating in ARCNET emulation mode the ARCNETPLUS PC LAN Adapter appears to the network operating system driver as a traditional I/O-mapped ARCNET adapter. Data transmission is accomplished at 2.5 and 20 Mbits depending upon the capabilities of the receiving node. All data and network protocol messages conform to the ARCNET standard.

ARCNETPLUS Native Mode

The ARCNETPLUS PC LAN Adapter includes a native mode of operation which is accessible to enhanced

ARCNETPLUS network operating systems software drivers. The native mode of operation provides significant network performance improvements through the use of large data packets, enhanced network data transmission facilities, and extended network management capabilities.

LAN SOFTWARE

The ARCNETPLUS PC LAN Adapter is packaged with software drivers for Novell NetWare versions 2.2 and 3.11. These drivers utilize the ARCNETPLUS native mode interface which enables NetWare users to exploit all of the enhanced features and performance of ARCNETPLUS while retaining total use of NetWare System software features. The NetWare version 3.11 driver conforms to the Novell Open Driver Interface (ODI) standard.

INSTALLATION

The ARCNETPLUS PC LAN Adapter is delivered in the default configuration recommended for use with Novell NetWare ARCNET systems for a PC AT system. All that is required is to select a network address to enable replacement of an existing ARCNET card by the ARCNETPLUS PC LAN Adapter.

The INSTALL program includes a network diagnostic selection which enables connectivity and data verification prior to loading the network operating systems software.

STANDARDS

The ARCNETPLUS PC LAN Adapter conforms with the ISO/OSI networking model and is a complete implementation of the ANSI ARCNET Trade Association draft standard for ARCNET LANs.

RELIABILITY

The ARCNETPLUS PC LAN components are manufactured using state-of-the-art surface mount technology. Rigorous component and systems-level testing are employed and a one-year warranty is included.

Model Codes

9515	ARCNETPLUS PC LAN Adapter
9520	ARCNETPLUS 5-Port PC HUB
9521	ARCNETPLUS 16-Port Active Hub

Technical Specifications

DATA TRANSFER SPEED

20 Mbits per second
2.5 Mbits per second

HARDWARE COMPATIBILITY

IBM PC compatible
8-bit XT
16-bit AT

SOFTWARE COMPATIBILITY

ARCNETPLUS enhanced mode:
Novell NetWare 3.11
Novell NetWare 2.2
Datapoint RMS/XA
ARCNET emulation mode:
All traditional I/O-mapped ARCNET network operating system drivers

NETWORK BOOT ROM

8K

NETWORK PACKET SIZE

Up to 4,224 Bytes

MEMORY

64K byte RAM buffers accessible through
16K window in high memory

DIAGNOSTIC SOFTWARE

On-board plus software provided

CERTIFICATION

FCC Class A, VDE Class A

POWER REQUIREMENTS

ISA specification for power consumption

OPERATING TEMPERATURE

0° to 50°C

HUMIDITY

10% to 90% non-condensing



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